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PATENT

ATTORNEY DOCKET NO. UCDA.004.01US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: **Mikal E. Saltveit et al.**

)

) Examiner: Not Yet Assigned

Serial No.: **09/964,992**

)

) Art Unit: 1645

Filed: **September 26, 2001**

)

) **MARKED-UP VERSION TO SHOW**

For: **Characterization of Phenylalanine
Ammonia-lyase (PAL) Gene in Wounded
Lettuce Tissue**

)

) **CHANGES MADE**

Assistant Commissioner for Patents
Washington, D.C. 20231

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TECH CENTER 1600/2900

Sir:

This marked-up specification (section 'Brief Description of the Drawings', page 5 lines 1-2) accompanies the attached preliminary amendment for the above-identified patent application and is submitted on or before December 26, 2001.

In the Specification

Figure 9: Sequence comparison of LsPAL1 (SEQ ID NO:1) to sunflower PAL (SEQ ID NO:5) demonstrating the close sequence homology.

CERTIFICATE OF FIRST CLASS MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231 on 12/16/01.

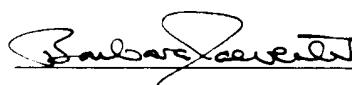
Signature: Robert T.athison

Printed Name: Robert T.athison

Mikal E. Saltveit *et al.*
Serial No. 09/964,992

Respectfully submitted,

Date: December 10, 2001

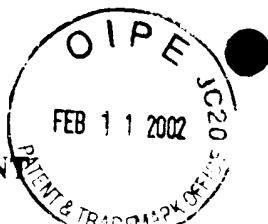


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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: **Mikal E. Saltveit et al.**)
Serial No.: **09/964,992**) Examiner: Not Yet Assigned
Filed: **September 26, 2001**) Art Unit: 1645
For: **Characterization of Phenylalanine**) **RED SKETCH OF DRAWING TO**
Ammonia-lyase (PAL) Gene in Wounded) **SHOW CHANGES MADE**
Lettuce Tissue)

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FEB 13 2002

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

This red sketch of Figure 9 accompanies the attached preliminary amendment for the above-identified patent application and is submitted on or before December 26, 2001.

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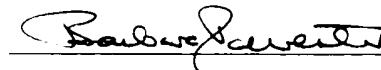
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Signature: *Ronald J. Ettema*
Printed Name: *Albert J. Patterson*

Mikal E. Saltveit *et al.*
Serial No. 09/964,992

Respectfully submitted,

Date: December 14, 2001



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<p>1 MENGTHVNGSANGFCIKDPLNWGVAAEALTGSHLDEVKKMVGEFRKPVVK 1 MENGNHVNGVVNELCIKDPLNWGVAAEALTGSHLDEVKKMVAEFRKPVVK</p> <p>51 LGGETLTJSQVAGISAAGDGNMVKVELSEAARAGVKASSDWVMESMNKGT 51 LGGETLTJSQVAGIAAANDSDTVKVELSEAARAGVKASSDWVMESMNKGT</p> <p>101 DSYGVTTGFGATSHRRTKGALQKELIRFLNAGIFGNGTTESSHTLPHSA 101 DSYGVTTGFGATSHRRTKGALQKELIRFLNAGIFGNGTETSHTLPHSA</p> <p>151 TRAAMIVRINTLLQGYSGIRFEILEAITKFLNNNITPCLPLRGITASGD 151 TRAAMIVRINTLLQGYSGIRFEILEAITKFLNNNITPCLPLRGITASGD</p> <p>201 LVPLSYIAGLLTGRPNASKAVGPAGEVLNAESAFAQAGVEGGFFELQPKEG 201 LVPLSYIAGLLTGRPNASKAVGPIGEVLNAEKAFAAAGVEGGFFELQPKEG</p> <p>251 LALVNNTAVGSGMASMVLFEANVLALLSEVLSAIFAEVMQGKPEFTDHLT 251 LALVNNTAVGSGMASMVLFDANVLALLSEVLSAIFAEVMQGKPEFTDHLT</p> <p>301 HKLKHHPGQIEAAAIMEYILDGSYVKAQKVHEMDPLQPKQDRYALRT 301 HKLKHHPGQIEAAAIMEYILDGSYVKAQKVHEMDPLQPKQDRYALRT</p> <p>351 SPQWLGPQIEVIRSATKMIEREINSVNDNPLIDVSRNKALHGNFQGTPI 351 SPQWLGPQIEVIRSSTKMIEREINSVNDNPLIDVSRNKALHGNFQGTPI</p> <p>401 GVSMDNTRLAIAAIGKVTIAQFSELVNDFYNNGLPSHLSGGRNPSLDGF 401 GVSMDNTRLAIAAIGKLMFAQFSELVNDFYNNGLPSNLSGGRNPSLDYGF</p> <p>451 KGGEIAMASYCSELQFLANPVTNHVQSAEQHNQDVNSLGLISARKTAEAV 451 KGGEIAMASYCSELQFLANPVTNHVQSAEQHNQDVNSLGLISARKTAEAV</p> <p>501 DILKLMSSTYLVALCQSIDLRLHEENMKSTVKNTVSQVAKVLTMGVNGE 501 DILKLMSSTYLVALCQSIDLRLHEENMKSTVKNTVSQVAKVLTMGVNGE</p> <p>551 LHPSRFCEKDLLRVVDREYVFAYADDPCLTTYPLMQKLRQVLVDHALNNG 551 LHPSRFCEKDLLRVVDREYVFAYDDVCSGTYPLMQKLRQVLVDHALNNG</p> <p>601 ETEKNANTSIFQKIATFEDELKALPKEVESVRVAFENGTMSPNRIKAC 601 ETEKNNTNTSIFQKIATFEEELKVLLPKEVEGVRAYENDTLSIPNRIKAC</p> <p>651 RSYPLYRFVREELGGA 651 RSYPLYRFVREELGRGFLTGEKVTSPGEEFDRVFTAMCKGQIIDPLLECL</p> <p>701 GGWNNGEPLPIC</p>	<p>Sunflower LsPAL1</p>
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Figure 9